



Dkt No. 1393.002
2302-1393
PATENT

COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

FORM PTO-1449 (Modified)
LIST OF PATENTS AND PUBLICATIONS
FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)
Sheet 1 of 3

In the Application of BARCHFIELD et al.

Serial No.: 09/044,696

Art Unit: ~~1641~~ 1645

Filed: March 18, 1998

Examiner: S. Devi

Title: DETOXIFIED MUTANTS OF BACTERIAL ADP-RIBOSYLATING TOXINS AS PARENTERAL ADJUVANTS

U.S. PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Date	Name	Class	Sub Class	Filing Date
/	AA-2		/				

FOREIGN PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Publication Date	Country or Patent Office	Class	Sub Class	Translation YES	NO
SD	AB-2	WO 96/06627	March 7, 1996	PCT				
SD	AC-2	O 145 486 A2	June 19, 1985	EPO				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Exam. Init.	Ref. Desig.	Description
SD	AD-2	Burnette et al., "Site-Specific Mutagenesis of the Catalytic Subunit of Cholera Toxin: Substituting Lysine for Arginine 7 Causes Loss of Activity," <i>Infection and Immunity</i> 59(11):4266-4270 (1991)
SD	AE-2	Di Tommaso et al., "Induction of Antigen-Specific Antibodies in Vaginal Secretions by Using a Nontoxic Mutant of Heat-Labile Enterotoxin as a Mucosal Adjuvant," <i>Infection and Immunity</i> 64(3):974-979 (1996)

Examiner:

SD

Date Considered: January 01.

EXAMINER: Initial if citation considered whether or not the citation conforms with MPEP609. Draw a line through the citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

FORM PTO-1449 (Modified)
LIST OF PATENTS AND PUBLICATIONS
FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)
Sheet 2 of 3

In the Application of BARCHFIELD et al.

Serial No.: 09/044,696

Art Unit: ~~1641~~ 1645

Filed: March 18, 1998

Examiner: S. Devi

Title: DETOXIFIED MUTANTS OF BACTERIAL ADP-RIBOSYLATING TOXINS AS PARENTERAL ADJUVANTS

Exam. Init.	Ref. Desig.	Description
SD	AF-2	Douce et al., "Mutants of <i>Escherichia Coli</i> Heat-Labile Toxin Lacking ADP-Ribosyltransferase Activity Act as Nontoxic, Mucosal Adjuvants," <i>Proc. Natl. Acad. Sci. USA</i> <u>92</u> :1644-1648 (1995)
SD	AG-2	Douce et al., "Intranasal Immunogenicity and Adjuvanticity of Site-Directed Mutant Derivatives of Cholera Toxin," <i>Infection and Immunity</i> <u>65</u> (7):2821-2828 (1997)
SD	AH-2	Fontana et al., "Construction of Nontoxic Derivatives of Cholera Toxin and Characterization of the Immunological Response Against the A Subunit," <i>Infection and Immunity</i> <u>63</u> (6):2356-2360 (1995)
SD	AI-2	Harford et al., "Inactivation of the <i>Escherichia Coli</i> Heat-Labile Enterotoxin by <i>In Vitro</i> Mutagenesis of the A-Subunit Gene," <i>Eur. J. Biochem.</i> <u>183</u> :311-316 (1989)
SD	AJ-2	Holmgren et al., "An Oral B Subunit: Whole Cell Vaccine Against Cholera," <i>Vaccine</i> <u>10</u> (13):911-914 (1992)
SD	AK-2	Jackson et al., "Optimizing Oral Vaccines: Induction of Systemic and Mucosal B-Cell and Antibody Responses to Tetanus Toxoid by Use of Cholera Toxin as an Adjuvant," <i>Infection and Immunity</i> <u>61</u> (10):4272-4279 (1993)
SD	AL-2	Magagnoli et al., "Mutations in the A Subunit Affect Yield, Stability, and Protease Sensitivity of Nontoxic Derivatives of Heat-Labile Enterotoxin," <i>Infection and Immunity</i> <u>64</u> (12):5434-5438 (1996)

Examiner:

SD

Date Considered: January 01.

EXAMINER: Initial if citation considered whether or not the citation conforms with MPEP609. Draw a line through the citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Atty Dkt No. 1393.002
2302-1393
PATENT

COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

FORM PTO-1449 (Modified)
LIST OF PATENTS AND PUBLICATIONS
FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)
Sheet 3 of 3

In the Application of BARCHFIELD et al.

Serial No.: 09/044,696

Art Unit: ~~1641~~ 1645

Filed: March 18, 1998

Examiner: S. Devi

Title: DETOXIFIED MUTANTS OF BACTERIAL ADP-RIBOSYLATING TOXINS AS PARENTERAL ADJUVANTS

Exam. Init.	Ref. Desig.	Description
SD	AM-2	Nashar et al., "Potent Immunogenicity of the B Subunits of <i>Escherichia Coli</i> Heat-Labile Enterotoxin: Receptor Binding is Essential and Induces Differential Modulation of Lymphocyte Subsets," <i>Proc. Natl. Acad. Sci. USA</i> <u>93</u> :226-230 (1996)
SD	AN-2	Partidos et al., "The Adjuvant Effect of a Non-Toxic Mutant of Heat-Labile Enterotoxin of <i>Escherichia Coli</i> for the Induction of Measles Virus-Specific CTL Responses After Intranasal Co-Immunization With a Synthetic Peptide," <i>Immunology</i> <u>89</u> :483-487 (1996)
SD	AO-2	Pizza et al., "Probing the Structure-Activity Relationship of <i>Escherichia Coli</i> LT-A by Site-Directed Mutagenesis," <i>Molecular Microbiology</i> <u>14</u> (1):51-60 (1994)
SD	AP-2	Rollwagen et al., "Killed <i>Campylobacter</i> Elicits Immune Response and Protection When Administered With an Oral Adjuvant," <i>Vaccine</i> <u>11</u> (13): 1316-1320 (1993)
SD	AQ-2	Tsuji et al., "A Single Amino Acid Substitution in the A Subunit of <i>Escherichia Coli</i> Enterotoxin Results in a Loss of Its Toxic Activity," <i>The Journal of Biological Chemistry</i> <u>265</u> (36):22520-22525 (1990)
SD	AR-2	van den Akker et al., "The Arg7Lys Mutant of Heat-Labile Enterotoxin Exhibits Great Flexibility of Active Site Loop 47-56 of the A Subunit," <i>Biochemistry</i> <u>34</u> :10996-11004 (1995)

Examiner:

SD

Date Considered:

January 01.

EXAMINER: Initial if citation considered whether or not the citation conforms with MPEP609. Draw a line through the citation if not in conformance and not considered. Include copy of this form with next communication to applicant.